

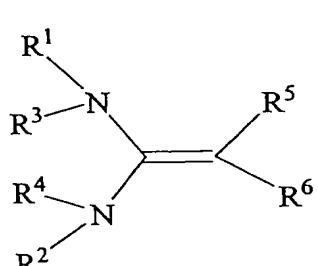
Claim Amendments

This listing of claims will replace all prior versions, and listings, of claims in the application.

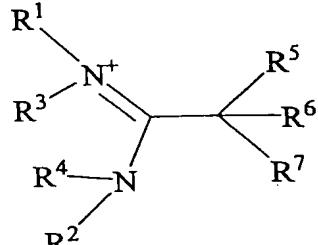
Listing of Claims

Claim 1. (Currently Amended) A process for preparing metal complexes of metals of groups 6 to 10 of the Periodic Table of the Elements, comprising:

reacting a compound of a metal of groups 6 to 10 of the Periodic Table of the Elements with a compound of the formula II and/or III



(II)



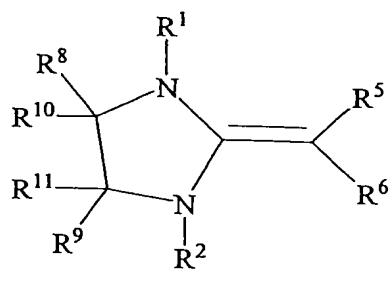
(III)

wherein R¹, R², R³, R⁴ are the same or different and each is a linear, branched, substituted or unsubstituted, cyclic or alicyclic alkyl group having from 1 to 24 carbon atoms; a substituted or unsubstituted, mono- or polycyclic aryl group having from 6 to 24 carbon atoms; a mono- or polycyclic, substituted or unsubstituted heterocycle having from 2 to 24 carbon atoms; a heteroatom selected from the group consisting of N, O and S, and R³ and R⁴ optionally are linked by a covalent bond;

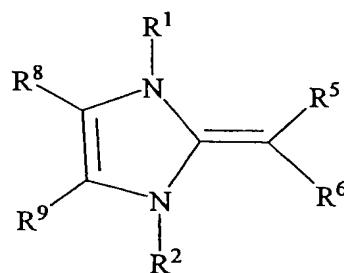
R⁵, R⁶ and R⁷ are optionally the same or different and each is H, a linear, branched, substituted or unsubstituted, cyclic or alicyclic alkyl group having from 1 to 24 carbon atoms; a substituted or unsubstituted, mono- or polycyclic aryl group having from 6 to 24 carbon

atoms, thereby forming a complex of said metal selected from groups 6-10 of the Periodic Table with said compound of formula (II) or (III), with the proviso that the R⁷ substituent is not H, and with the proviso that when groups R³ and R⁴ are bonded together to form an imidazole ring, the metal of the metal compound reactant can not be a member of group 10[[],] thereby forming a metal complex.

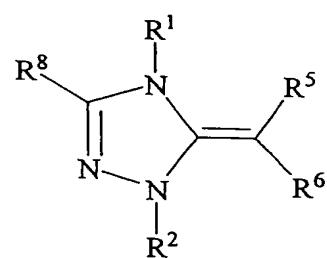
Claim 2. (Previously Presented) The process as claimed in claim 1, wherein the compounds of formulae II or III are compounds within the scope of formulae (V) to (X)



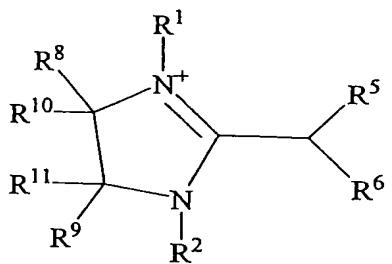
V



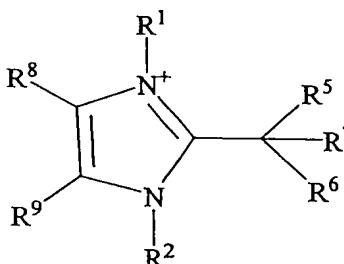
VI



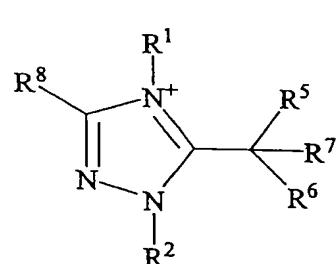
VII



VIII



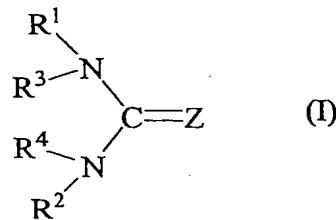
IX



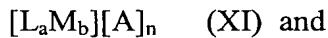
X

wherein R¹, R², R⁵, R⁶ and R⁷ are each as defined above and R⁸, R⁹, R¹⁰ and R¹¹ are the same or different and are each H or have one of the definitions of R¹.

Claim 3. (Previously Presented) The process as claimed in claim 1, wherein the product of the reaction is a metal complex of formula (I)



in which [Z] is a metal complex fragment of the formula:



M is a metal of groups 6 to 10 of the Periodic Table of the Elements;

L is one or more identical or different mono- or polydentate, charged or uncharged ligands;

A is a singly charged anion or the chemical equivalent of a multiply charged anion;

b is an integer from 1 to 3;

a is an integer from 0 to $5 \times b$;

n is an integer from 0 to 6;

and R^1 , R^2 , R^3 and R^4 are each defined as specified.

Claim 4. (Previously Presented) The process as claimed in claim 3, wherein L in formula (XI) is hydrogen, the hydrogen ion, halogens, halogen ions, pseudohalides, carboxylate ions, sulfonate ions, amide radicals, alkyl groups, alkylaryl groups, aryl groups, heteroaryl groups, alkenyl groups, alkoxide radicals, nitriles, isonitriles, mono- or diolefins, alkynes, π -aromatic radicals, cyclopentadienyl, indenyl, phosphines, phosphates, phosphinites, phosphonites, phosphorus aromatics, acetylacetone, carbon monoxide, nitrogen monoxide or carbene ligands, where the alkyl groups contain from 1 to 24 carbon atoms, the alkenyl and heteroaryl groups from 2 to 24 carbon atoms, and the aryl and alkylaryl groups from 5 to 24 carbon atoms, and optionally are each substituted or unsubstituted.

Claim 5. (Previously Presented) The process as claimed in claim 3, wherein

A in formula (XI) is halide, pseudohalide, tetraphenylborate, tetrafluoroborate, tetrachloroborate, hexafluorophosphate, hexafluoroantimonate, tetracarbonylcobaltate, hexafluoroferate, tetrachloroferrate, tetrachloroaluminate, triflate, bis(trifluorosulfonyl)amide, heptachlorodialuminate, tetrachloropalladate, sulfate, hydrogensulfate, nitrate, nitrite, phosphate, hydrogenphosphate, dihydrogenphosphate, hydroxide, carbonate, hydrogencarbonate, salts of aromatic or aliphatic carboxylic acids, salts of aromatic or aliphatic sulfonic acids or phenoxides.

Claim 6. (Previously Presented) The process as claimed in claim 1, wherein the metal of groups 6 to 10 of the Periodic Table is Ru, Rh, Ni, Pd, or Pt.

Claim 7. (Canceled)

Claim 8. (Previously Presented) The process as claimed in claim 1, wherein one or more embodiments of the compounds of formulas II and/or III is reacted with said metal in a ratio ranging from 1 to 100 mol amount to the metal of groups 6 to 10 of the Periodic Table.

Claims 9 and 10. (Canceled)

Claim 11. (Previously Presented) A method of telomerization, comprising:

reacting an olefinic material with a nucleophile in the presence of a catalyst which is the reaction product of Claim 1.

Claim 12. (Previously Presented) The method of Claim 11, wherein the olefinic material is a conjugated diolefin and the nucleophile is an aliphatic alcohol.

Claim 13. (New) A method, comprising:

conducting a hydroformylation, a hydrogenation, an aryl amination, a hydrosilylation, a Heck reaction, a Suzuki coupling, a Kumada coupling, a Stille coupling, a Miyaura coupling, a Sonogashira coupling, an olefin metathesis, a cyclopropanation, a reduction of a haloarene or a polymerization reaction in the presence of a catalyst of a metal complex (I) that is comprised of one or more compounds of formula II and/or III as prepared by the method of Claim 1.